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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,832	08/04/2003		Kazuo Akagami	Q76570	9234
23373	7590	01/06/2005		EXAM	INER
SUGHRUE		PLLC A AVENUE, N.W.	JOYCE, WILLIAM C		
SUITE 800	312 VIII (I		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20037				3682	
				DATE MAILED: 01/06/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/632,832	AKAGAMI ET AL.					
Office Action Summary	Examiner	Art Unit					
	William C. Joyce	3682					
The MAILING DATE of this communic Period for Reply	cation appears on the cover sheet w	vith the correspondence address					
A SHORTENED STATUTORY PERIOD FOTHE MAILING DATE OF THIS COMMUNION.  Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this community of the period for reply specified above is less than thirty (30 or If NO period for reply is specified above, the maximum states after than the reply within the set or extended period for reply within the set or extended period f	CATION.  of 37 CFR 1.136(a). In no event, however, may a unication.  of days, a reply within the statutory minimum of thi tutory period will apply and will expire SIX (6) MO will, by statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed	d on 03 November 2004.						
· · · · · · · · · · · · · · · · · · ·	b)⊠ This action is non-final.						
3) Since this application is in condition f							
closed in accordance with the practic	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) 5,12 and 14 is/are pending is 4a) Of the above claim(s) is/are 5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 5,12 and 14 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restrict	e withdrawn from consideration.						
Application Papers		•					
9)☐ The specification is objected to by the	Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objec	tion to the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
•	by the Examiner. Note the attache	a office Action of John 1 10-102.					
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No. 09/680,687.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PT3)</li> <li>Information Disclosure Statement(s) (PT0-1449 or Paper No(s)/Mail Date 8/4/03.</li> </ol>		Informal Patent Application (PTO-152)					

Application/Control Number: 10/632,832

Art Unit: 3682

### **DETAILED ACTION**

This is the First Office Action in response to the Election or Species filed November 3, 2004 for the above identified patent application.

#### Election/Restrictions

1. Applicant's election without traverse of Species V, FIGS. 15-22 and 24-28 filed on November 3, 2004 is acknowledged.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 14 is rejected under 35 U.S.C. 102(b) as being anticipated by Japanese reference 2595260 ('260).

The Japanese reference '260 discloses a bearing apparatus comprising: an inner race (23), an outer race (21), rolling elements disposed between the inner race and the outer race, and a sealing device for sealing a space between the inner race and the outer race. The sealing device having: an outer race member (28), an inner race member (30) encircled by the outer race and attached to the inner race, and a sealing member (41) between the inner member and the outer member, the sealing member having a sealing body attached to the inner race member and a sealing face part

Application/Control Number: 10/632,832

Art Unit: 3682

disposed on the outer race member, wherein when the inner race member is rotated at a predetermined speed or lower, the sealing body contacts the sealing face parts and when the inner race member is rotated at a speed more than a predetermined speed, the sealing body reduces the contact pressure to the sealing face part or separates from the sealing face part such as to form a non-contact seal in conjunction with the sealing face part wherein the sealing body is positioned at a side of an interior space of the bearing with respect to the sealing face part.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 5 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese reference 2595260 ('260) as applied to claim 14 above, and further in view of Japanese reference 11-257361 ('361).

The Japanese reference '260 does not disclose the axially dividable bearing races or the circumferential groove in the outer race member. The prior art Japanese reference 11-257361 teaches a bearing arrangement having axially dividable races in combination with a circumferential groove (14) formed on an outer race member (13).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the bearing arrangement of Japanese reference '260

Application/Control Number: 10/632,832

Art Unit: 3682

with axially dividable races, as taught by Japanese reference '361, motivation being to facilitate in assembling a bearing having 4 rows of rollers for rigidly supporting a rotating shaft.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the bearing arrangement of Japanese reference '260 with a circumferential groove on an outer race member, as taught by Japanese reference '361, motivation being to provide a sealing arrangement for sealing the outer race to a bearing support.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Joyce whose telephone number is (703) 305-5114. The examiner can normally be reached on Monday - Thursday 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bucci can be reached on (703) 308-3668. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/632,832 Page 5

Art Unit: 3682

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William Covce 12/30/04